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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/18/2004

Christopher J Reckamp Vedder Price Kaufman & Kammholz 222 North LaSalle Street Chicago, IL 60601

EXAMINER PAN, DANIEL H ART UNIT

2183

DATE MAILED: 03/18/2004

6

PAPER NUMBER

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/471,877 12/23/1999		ADRIAN SFARTI	0100.9910145	8063

TITLE OF INVENTION: METHOD OF INTEGRATING A PERSONAL COMPUTING SYSTEM AND APPARATUS THEREOF

APPLN. TYPE	SMALL ENTITY	issue fee	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	06/18/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(Date)

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 03/18/2004 Christopher J Reckamp Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. Vedder Price Kaufman & Kammholz 222 North LaSalle Street Chicago, IL 60601 (Depositor's name) (Signature)

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09/471,877	12/23/1999	ADRIAN SFARTI	0100.9910145	8063

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nonprovisional	NO	\$1330		\$0	\$1330	06/18/2004
EXAMINER		ART UNIT CLAS		CLASS-SUBCLASS		
PAN, DANIEL H		2183		712-010000		
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.				nting on the patent front page, up to 3 registered patent at R, alternatively, (2) the name of ing as a member a registered a	torneys or 1 of a single	
□ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE

Please check the appropriate assignee category	or categories (will not be printed on the patent);	☐ individual	☐ corporation or other private group entity	y 🛭 governmen
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.	
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	☐ The Director is he Deposit Account Nur	ereby authorized	by charge the required fee(s), or credit and (enclose an extra copy of the	y overpayment, to s form).
Director for Patents is requested to apply the Is	sue Fee and Publication Fee (if any) or to re-apply	any previously p	aid issue fee to the application identified ab	ove.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee other than the applicant; a registered attorn interest as shown by the records of the United	(if required) will not be accepted from anyone ey or agent; or the assignee or other party in States Patent and Trademark Office.			
estimated to take 12 minutes to complete, incompleted application form to the USPTO. case. Any comments on the amount of tis suggestions for reducing this burden, should Patent and Trademark Office, U.S. Dep	37 CFR 1.311. The information is required to the is to file (and by the USPTO to process) and U.S.C. 122 and 37 CFR 1.14. This collection is cluding gathering, preparing, and submitting the Time will vary depending upon the individual me you require to complete this form and/or be sent to the Chief Information Officer, U.S. artment of Commerce, Alexandria, Virginia COMPLETED FORMS TO THIS ADDRESS. Idria, Virginia 22313-1450.			
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09/471,877 12/23/1999		ADRIAN SFARTI	0100.9910145 8063	
7:	590 03/18/2004		EXAM	INER
Christopher J Reckamp			PAN, DANIEL H	
Vedder Price Kauf 222 North LaSalle			ART UNIT	PAPER NUMBER
Chicago, IL 60601			2183	
			DATE MAILED: 03/18/200	4

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

M

	Application No.	Applicant(s)			
	09/471,877	SFARTI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	pan	2183			
— The MAILING DATE of this communication appears on the cover sheet with the correspondence address— All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to the paper filed on 3/3/04. 2. ☑ The allowed claim(s) is/are 1-33. 3. ☑ The drawings filed on 23 December 1999 are accepted by the Examiner. 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
6. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	•	948) attached			
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s)					
1. Notice of References Cited (PTO-892)		atent Application (PTO-152)			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summary Paper No./Mail Dat				
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	98), 7. ☐ Examiner's Amenda	nent/Comment			
4. Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allowance			
of Biological Material	9.	MARY FAMINER GROUP AND THE			

Application/Control Number: 09/471,877 Page 2

Art Unit: 2183

Reasons for Allowance

Upon further review and consideration, none of the prior art of record teaches:

a) the combined features of the direct connection of the central processing unit to the north gate on a single substrate, the access requests from the central processing unit to the north gate at the rate of the central processing unit, and the processing of the memory access requests at the rate of memory by the north gate (claims 1,28);
b) the combined features of the retrieval of the memory request from the memory request buffer at the memory rate, the north bridge interfaced with the memory at memory rate, the memory bus, the north gate and memory on the same substrate (claim 14);

c) the combined features of the issuing the memory request of the phase locked loop when instruction information is not in the data module or the instruction module, the receiving of the memory request form central processing unit at central processing rate, the retrieval of the memory access request from the memory request buffer at memory rate (claim 7,20).

Prior art of record

a) Wandler et al. (5,991,833) disclosed a system including the north bridge [50] which may be integrated with a CPU (e.g. see col.6, lines 1-8). However, it did not show the

Application/Control Number: 09/471,877

at the rate of memory by the north gate.

Art Unit: 2183

combined features of the access requests from the central processing unit to the north gate at the rate of the central processing unit and the processing of the memory access requests at the rate of memory by the north gate as claimed.

b) Connor et al. (4,152,764) was cited for the teaching of the processing of the request not to exceed the memory speed (e.g. see col.2, lines 13-27, col.5, lines 60-67).

However, Connor was directed to the sum of lower rates of the processors not to exceed the maximum storage rate. Connor did not show the memory request by the north bridge at the memory rate, nor the combined features of the combined features of the direct connection of the central processing unit to the north gate on a single

substrate, the access requests from the central processing unit to the north gate at the

rate of the central processing unit, and the processing of the memory access requests

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Pan whose telephone number is 703 305 9696.

The examiner can normally be reached on M-F from 8:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chan, can be reached on 703 305 9712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

Application/Control Number: 09/471,877

Art Unit: 2183

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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